

## Rational Equations

## • Examples:

1. 
$$\frac{1}{x} = \frac{1}{8} - \frac{3}{5}$$

2. 
$$\frac{5}{2y} + \frac{8}{y} = 1$$

3. 
$$\frac{t+5}{t-2} = \frac{t-2}{t+4}$$

4. 
$$\frac{3}{4x-6} + \frac{1}{4} = \frac{5}{2x-3}$$

5. 
$$\frac{2x+1}{x^2-3x-10} + \frac{x-1}{x^2-4} = \frac{3x-1}{x^2-7x+10}$$

$$6. \quad \frac{3-2y}{y+1} - \frac{10}{y^2-1} = \frac{2y+3}{1-y}$$

$$7. \quad \frac{5}{2x} = x - \frac{9}{2}$$

$$8. \quad \frac{x}{2x-3} = \frac{1}{2} - \frac{5}{2x-3}$$

$$9. \quad \frac{3x}{x+6} - 4 = \frac{2}{x+6}$$